

WHAT IS CLAIMED IS:

1. A level-sensor device for a liquid-fuel tank, particularly for a system of LPG supply to the
5 internal-combustion engine of a motor vehicle, comprising:

- a floating member, which can move vertically within the tank following upon variations of level of the fuel in the tank; and

10 - transducer means sensitive to the movement of the floating member, for issuing an electrical signal indicating the position of the floating member in the tank,

wherein:

15 the floating member has a body vertically slidably guided in a within the tank;

said transducer means comprise a vertically aligned series of electrical magnetic-actuation switches of a reed-relay type arranged adjacent to the floating
20 member; and

the body of the floating member comprises magnetic means designed to activate selectively one or more of the aforesaid electrical magnetic-actuation switches according to its position with respect to the aligned
25 series of said electrical magnetic-actuation switches.

2. The level-sensor device according to Claim 1, wherein said floating member has an annular body guided on a vertical guide column that is engaged through the central opening of the annular body of the floating
30 member.

3. The level-sensor device according to Claim 2, wherein said guide column consists of a tubular element made of non-magnetic material and in that the aforesaid aligned series of electrical magnetic-actuation switches is set within said tubular element.
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4. The level-sensor device according to Claim 2,
wherein the aforesaid magnetic means consist of one or
more permanent magnets embedded in the annular body of
the floating member and arranged at angular distances
5 apart around the central opening of said body.

5. The level-sensor device according to Claim 4,
wherein the annular body of the floating member has a
cylindrical conformation with a ratio between the
diameter of its base and its height at least greater
10 than 1 and preferably greater than 2.

6. The level-sensor device according to Claim 2,
wherein the assembly consisting of the aforesaid
supporting column and the floating member, which is
installed in a slidable way on said supporting column,
15 is enclosed within a cylindrical container having, in
the proximity of its bottom end, at least one opening
for communication of the cavity inside the cylindrical
container with the remaining part of the space inside
the tank.

20 7. A tank for LPG in a system for supply of LPG to
the internal-combustion engine of a motor vehicle,
wherein it is provided with a level-sensor device
according to one or more of the preceding claims.